

05/21/98
15589 U.S. PAT. 1449 (modified)

PTO 1449 (modified)	Atty. Docket No. 40121BL	Serial No. 08/834,050
OF REFERENCES CITED BY PLICANT	Applicant: Pak-Wing Steve Chum et al.	
	Filing Date: 04/11/97	Group 1505

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
BW	AA	3,998,914	12/21/76	Lillis et al.			
	AB	4,405,774	09/20/83	Miwa et al.			
	AC	4,429,079	01/31/84	Shibata et al.			
	AD	4,438,238	03/20/84	Fukushima et al.			
	AE	4,981,760	01/01/91	Naito et al.			
	AF	5,189,106	02/23/93	Morimoto et al.			
	AG	5,206,075	04/27/93	Hodgson, Jr.			
	AH	5,218,071	06/08/93	Tsutsui et al.			
	AI	5,272,236	12/21/93	Lai et al.			
	AJ	5,278,272	01/11/94	Lai et al.			
BW	AK	5,374,700	12/20/94	Tsutsui et al.			

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		Document Number	Date	Country	Class	Sub-class	Translation
BW	BA	CA 2,008,315	07/24/90	CA (Tsutsui et al.)			
	BB	EP 0 447 035	09/18/91	EPO (Tsutsui et al.)			
	BC	WO 90/03414	04/05/90	PCT (Stehling et al.)			
	BD	WO 93/08221	04/29/93	PCT (Lai et al.)			
BW	BE	WO 94/06857	03/31/94	PCT (Hodgson et al.)			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

BW	CA	Modern Methods of Polymer Characterization, pp. 103-112, (1991) "Measurement of Long-Chain Branch Frequency in Synthetic Polymers", by Alfred Rudin
	CB	The Journal of Chemical Physics, vol. 17, no. 12, December (1949), pp. 1301-1314, "The Dimensions of Chain Molecules Containing Branches and Rings", by Bruno H. Zimm and Walter H. Stockmayer
	CC	Antec 93 - Be In That Number, New Orleans, May 9-13, (1993), vol. II, "Dow Constrained Geometry Catalyst Technology (CGCT): New Rules For Ethylene α -Olefin Interpolymers-Controlled Rheology Polyolefins", pp. 1188-1192, by S. Lai and G.W. Knight
	CD	Journal of Rheology, (1986), pp. 340-341, 344-345, 348-349, 352-353, 356-357, "Wall Slip in Viscous Fluids and Influence of Materials of Construction", by A.V. Ramamurthy
	CE	Rheometers for Molten Plastics, (1982), pp. 97-99, by John Dealy
BW	CF	Polymer Engineering and Science, vol. 17, no. 11, November (1977), pp. 769-774, "Correlation of Low Density Polyethylene Rheological Measurements with Optical and Processing Properties", by M. Shida, R.N. Shroff, and L.V. Cancio

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Number	Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
dw	AA	5,395,471	03/07/95	Obijeski et al.		
	AB	5,395,810	03/07/95	Shamshoum et al.		
	AC	5,408,004	04/18/95	Lai et al.		
dw	AD	5,444,145	08/22/95	Brant et al.		
	AE					
	AF					
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	Document Number	Date	Country	Class	Sub-class	Translation
dw	BA	WO 94/12568	06/09/94	PCT (Chambon et al.)		
	BB	WO 95/13321	05/18/95	PCT (Farley et al.)		
	BC	WO 93/13143	07/08/93	PCT (Parikh et al.)		
dw	BD	WO 93/03093	02/18/93	PCT (Meka et al.)		
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dw	C A	"A Review of High Resolution Liquid ¹³ Carbon Nuclear Magnetic Resonance Characterizations of Ethylene-Based Polymers", <u>IMS-Rev. Macromol. Chem. Phys.</u> , C29(2&3), pp. 201-317, (1989) by James C. Randall
	C B	<u>ACS Symposium Series</u> , no. 142, pp. 94-118, (1980) "Characterization of Long-Chain Branching in Polyethylenes Using High-Field Carbon-13 NMR", by J.C. Randall
	C C	SPE Regional Technical Conference, Quaker Square Hilton, Akron, Ohio, October 1-2, (1985), pp. 107-119, "The Role of Comonomer Type and Distribution in LLDPE Product Performance", by L.D. Cady
	C D	<u>Journal of Polymer Science: Polymer Physics Edition</u> , vol. 20, pp. 441-455 (1982), "Determination of Branching Distributions in Polyethylene and Ethylene Copolymers", by L. Wild, T.R. Ryle, D.C. Knobloch, and I.R. Peat
	C E	<u>Antec 93</u> , pp. 58-62, "Flexomer Polyolefins, A Unique Class of Ethylene Copolymers for Low Temperature Film Applications", by D.C. Eagar, G.E. Ealer, S.A. Bartocci and D.M. Kung
dw	C F	Worldwide Metallocene MetCon '94, May 25-27, (1994), "Improved Processing and Performance Balance of Polyethylene Resins Using Metallocene Catalyst Technology", by Mark A. Wendorf

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sw	CA	Specialty Plastics Conference 1990-The Raw Materials Scenario for PE and PP Film Applications and Markets, December 3-4, "High Value Added Film Using an Olefin Based Elastomer", by M. Tanaka
	CB	Packaging Technology and Engineering, April 1994, pp. 34-37, "Single-Site Catalysts Produce Tailor-Made, Consistent Resins", by David F. Simon
sw	CC	Polyolefin Modification with EXACT™ Plastomers", SPE, Feb. 21-24, 1993, pp. 539-564, by T.C. Yu and G.J. Wagner
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sw	AA	2,983,704	05/09/61	Roedel	/	/	
	AB	3,179,720	04/20/65	Hillmer	/	/	
	AC	3,231,636	01/25/66	Synder et al.	/	/	
	AD	3,340,328	09/05/67	Brindell et al.	/	/	
	AE	3,491,073	01/20/70	Marinak	/	/	
	AF	3,645,992	02/29/72	Elston	/	/	
	AG	3,914,342	10/21/75	Mitchell	/	/	
	AH	4,205,021	05/27/80	Morita et al.	/	/	
	AI	4,230,831	10/28/80	Sakurai et al.	/	/	
	AJ	4,263,422	04/21/81	Lowery, Jr. et al.	/	/	
sw	AK	4,320,088	03/16/82	Nicco	/	/	

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		Document Number	Date	Country	Class	Sub-class	Translation
sw	BA	GB 1,233,599	05/26/71	GB (Monsanto)	/	/	
	BB	JP 53-75278	07/04/78	JP (Sho)	/	/	
	BC	JP 131516	06/26/84	JP (English Abstract)	/	/	
	BD	JP 62-121709	06/03/87	JP (Tsutsui)	/	/	
sw	BE	WO 87/03610	06/18/87	PCT (Cozewith et al.)	/	/	

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sw	CA	Research Disclosure 37652, August 1995
	CB	Research Disclosure 36210, June 1994
	CC	Research Disclosure 37644, August 1995
	CD	Plastics World, "LLDPE Blends Perk Up Performance of PE Films, pp. 40-43, December 1982
	CE	MetCon '93, May 26-28, 1993, Houston, Tx, "The Distinguished Features of Metallocene-Based Polyolefins", pp. 235-243, 240, by Akira Todo
sw	CF	EXACT™ Polymers - For Targeted Performance in Film Packaging", product brochure published by Exxon Chemical Company October 1992

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SW	AA	4,330,639	05/18/82	Matsuura et al.			
	AB	4,346,834	08/31/82	Mazumdar			
	AC	4,374,227	02/15/83	Michie, Jr.			
	AD	4,461,873	07/24/84	Bailey et al.			
	AE	4,469,752	09/04/84	Yoshimura et al.			
	AF	4,510,303	04/09/85	Oda et al.			
	AG	4,530,914	07/23/85	Ewen et al.			
	AH	4,542,199	10/17/85	Kaminsky et al.			
	AI	4,659,685	04/21/87	Coleman, III et al.			
	AJ	4,668,752	05/26/87	Tominari et al.			
SW	AK	4,701,432	10/20/87	Welborn, Jr.			

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		Document Number	Date	Country	Class	Sub-class	Translation
SW	BA	EP 0 374 695	06/27/90	EPO (Davis)			
	BB	JP 63-328197	10/10/90	JP (Fujii et al.)			
	BC	EP 0 416 815	03/13/91	EPO (Stevens et al.)			
	BD	EP 0 436 328	07/10/91	EP (Asanuma et al)			
SW	BE	EP 0 503 791	09/16/92	Ali et al.			

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SW	CA	Journal of Polymer Science: Part B: Polymer Physics, "An Analytical Technique for Measuring Relative Tie-Molecule Concentration in Polyethylene", Vol. 29, pp. 1047-1055 (1991) by A. Lustiger and N. Ishikawa
	CB	Journal of Materials Science, "Molecular Topology in Ethylene Copolymers Studied by Means of Mechanical Testing", vol. 23, pp. 415-421 (1988) by R. Seguela and F. Rietsch
	CC	Polymer, "Tensile Drawing Behaviour in a Linear Low-Density Polyethylene: Changes in Physical and Mechanical Properties", Vol. 27, pp. 532-536 (1986) by R. Seguela and F. Rietsch
	CD	Makromol. Chem., Macromol. Symp., "Slow Crack Growth in Polyethylene - A Review", vol. 41, pp. 55-67 (1991) by Norman Brown, Xici Lu, Yan-Ling Huang, and Ruzheng Qian
	CE	Journal of Polymer Science: Part B: Polymer Physics, "Fatigue Crack Propagation in High-Density Polyethylene", vol. 29, pp. 371-388 (1991) by J.T. Yen and J. Runt
SW	CF	Macromolecules, "Sequence and Branching Distribution of Ethylene/1-Butene Copolymers Prepared with a Soluble Vanadium-Based Ziegler-Natta Catalyst", vol. 25, pp. 2820-2827 (1992) by N. Kuroda, Y. Nishikitani, K. Matsuura and N. Ikegami

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Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
sw	AA	4,752,597	06/21/88	Turner			
	AB	4,770,912	09/13/88	Furrer et al.			
	AC	4,786,688	11/22/88	Thiersault et al.			
	AD	4,789,714	12/06/88	Cozewith et al.			
	AE	4,801,652	01/31/89	Mizutani et al.			
	AF	4,804,714	02/14/89	Olivo			
	AG	4,828,906	05/09/89	Nishimura et al.			
	AH	4,837,262	06/06/89	Jeon et al.			
	AI	4,935,474	06/19/90	Ewen et al.			
	AJ	4,937,299	06/26/90	Ewen et al.			
sw	AK	4,939,217	07/03/90	Stricklen			

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sw	BA	WO 93/00400	01/07/93	PCT (Biddle et al.)			
	BB	WO 93/03093	02/18/93	PCT (Meka et al.)			
	BC	EP 0 572 034	12/01/93	EPO (Toshimi et al.)			
	BD	JP 53-31229	12/14/93	JP (English Abstract)			
sw	BE	WO 94/00500	01/06/94	PCT (Pannell et al.)			

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sw	CA	Polymer Communications, "Morphological Location of Ethyl Branches in 13C-Enriched Ethylene/1-Butene Random Copolymers", vol. 29, pp. 258-260 September (1988) by D. C. McFaddin, K.E. Russell and E. C. Kelusky
	CB	Journal of Polymer Science: Polymer Chemistry Edition, "The Preparation and Characterization of Homogeneous Copolymers of Ethylene and 1-Alkenes", vol. 22, pp. 1383-1392 (1984) by B.K. Hunter, K.E. Russell, M.V. Scammell and S.L. Thompson
	CC	Polymer Engineering and Science, "Characterizing Polyethylene-Based Blends with Temperature Rising Elution Fractionation (TREF) Techniques", vol. 27, no. 20, pp. 1562-1571, Mid-November (1987) by Eric C. Kelusky, Clay T. Elston and Ron E. Murray
	CD	"Exxpol Technology For Targeted Polymer Performance," (brochure from/by Exxon Chemical Company with an unknown date)
	CE	SPO '93, "Exact Polymers Unique Properties for Value-Added Applications" by F.J. Steininger
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sw	AA	4,987,212	01/22/91	Morterol et al.	—	—	
	AB	5,001,206	03/19/91	Bashir et al.	—	—	
	AC	5,026,798	06/25/91	Canich	—	—	
	AD	5,028,663	07/02/91	Chung	—	—	
	AE	5,032,651	07/16/91	McDaniel et al.	—	—	
	AF	5,041,501	08/20/91	Shirodkar	—	—	
	AG	5,047,468	09/10/91	Lee et al.	—	—	
	AH	5,055,438	10/08/91	Canich	—	—	
	AI	5,077,255	12/31/91	Welborn	—	—	
	AJ	5,082,902	01/21/92	Gurevitch et al.	—	—	
sw	AK	5,084,540	01/28/92	Albizzati et al.	—	—	

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sw	BA	JP 60-16880	01/25/94	JP (English Abstract)	—	—	
	BB	WO 94/03538	02/17/94	PCT (Peacock)	—	—	
	BC	EP 0 598 626	05/25/94	EPO (Takahashi et al.)	—	—	
	BD	WO 94/17112	08/04/94	PCT (Kolthammer et al.)	—	—	
sw	BE	EP 0 662 989	07/19/95	EPO (Garza et al.)	—	—	

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<i>ew</i>	AA	5,091,228	02/25/92	Fujii et al.			
	AB	5,177,147	01/05/93	Spenadel et al.			
	AC	5,210,142	05/11/93	Kale et al.			
	AD	5,266,392	11/30/93	Land et al.			
	AE	5,272,016	12/21/93	Ralph			
	AF	5,530,065	06/25/96	Farley et al.			
	AG	5,350,807	09/27/94	Pettijohn et al.			
	AH	5,376,439	12/27/94	Hodgson et al.			
	AI	5,464,905	11/07/95	Tsutsui et al.			
	AJ	5,519,091	05/21/96	Tsutsui et al.			
	AK	5,656,696	08/12/97	Yamamoto et al.			
<i>ew</i>	AL	5,663,236	09/02/97	Takahashi et al.			

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<i>ew</i>	BA	EP 0 735 090	02/10/96	EPO (Yamamoto et al.)			
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